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Product datasheet for PH300831

C1orf135 (AUNIP) (NM_024037) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	C1orf135 MS Standard C13 and N15-labeled recombinant protein (NP_076942)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200831
Predicted MW:	40.3 kDa
Protein Sequence:	>RC200831 protein sequence Red=Cloning site Green=Tags(s) MRRTGPEEEACGVWLDAAALKRRKVQTHLIKPGTKMLTLLPGERKANIYFTQRRAPSTGIHQRSIASFFT LQPGKTNGSDQKSVSSHTESQINKESKKNATQLDHLIPGLAHDCMASPLATSTTADIQEAGLSPQSLQTS GHHRMKTPFSTELSLLQPDTPDCAGDSHTPLAFSFTEDLESSCLLDRKEEKGDSARKWEWLHESKKNYQS MEKHTKLPGDKCCQPLGKTKLERKVSAKENRQAPVLLQTYRESWNGENIESVKQSRSPVSVFSWDNEKND KDSWSQLFTEDSQGQRVIAHNTRAPFQDVTNNWNWDLGPFPNSPWAQCQEDGPTQNLKPDLLFTQDSEGN QVIRHQF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_076942
RefSeq Size:	2178
RefSeq ORF:	1071
Synonyms:	AIBP; C1orf135
Locus ID:	79000

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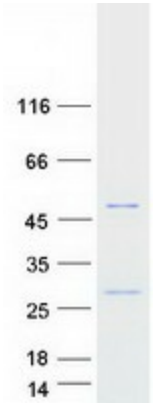
UniProt ID: Q9H7T9

Cytogenetics: 1p36.11

Summary: DNA-binding protein that accumulates at DNA double-strand breaks (DSBs) following DNA damage and promotes DNA resection and homologous recombination (PubMed:29042561). Serves as a sensor of DNA damage: binds DNA with a strong preference for DNA substrates that mimic structures generated at stalled replication forks, and anchors RBBP8/CtIP to DSB sites to promote DNA end resection and ensuing homologous recombination repair (PubMed:29042561). Inhibits non-homologous end joining (NHEJ) (PubMed:29042561). Required for the dynamic movement of AURKA at the centrosomes and spindle apparatus during the cell cycle (PubMed:20596670).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified AUNIP protein (Cat# [TP300831]). The protein was produced from HEK293T cells transfected with AUNIP cDNA clone (Cat# [RC200831]) using MegaTran 2.0 (Cat# [TT210002]).